

SYNC BURSTS FOR FREQUENCY OFFSET COMPENSATION

ABSTRACT OF THE DISCLOSURE

A method (500) and system for compensation of frequency offset
5 between a first transceiver (102) and a second transceiver (104) in wireless
communication are disclosed. The compensation of the frequency offset
between two or more transceivers (102, 104) is achieved using frequency
synchronization bursts. These bursts contain information about the frequency
offset. The frequency synchronization bursts are transmitted by the first
10 transceiver at a range of frequencies above and below its carrier frequency
(502). A second transceiver that receives at least one of these bursts (504)
determines the frequency offset (504), and adjusts its frequency to match the
frequency of the first transceiver (508). Thereafter, the second transceiver
may enter a low power sleep mode (510) in order to reduce its power
15 consumption. The second transceiver returns to active mode (512) just before
the start of the transmission of the data packets (514).